



JINR Newsletter #2, 19 January 2023

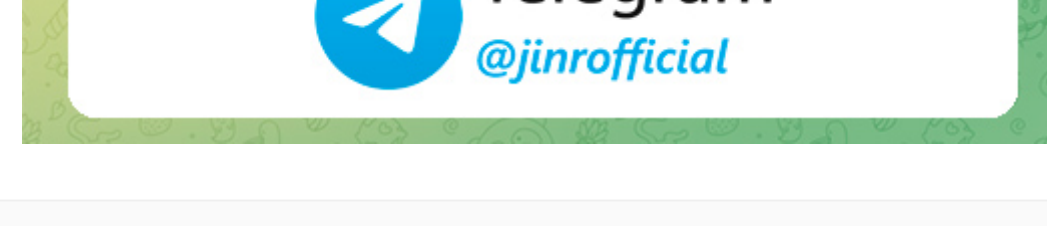
Dear colleagues and friends,

This week's central theme is the start of the winter meetings of the JINR Programme Advisory Committees, first of them being the PAC for Condensed Matter Physics.

Read in the fresh issue of the JINR Newsletter about the development of international cooperation and past meetings of the JINR Directorate with the Heads of the diplomatic missions of Mexico and China.

The AYSS seminars are on the go again. The JINR libraries have the new books *Intake*. And the icing on the cake: read the news about Hedwig the Owl, the Institute's favourite saved by a BLTP employee.

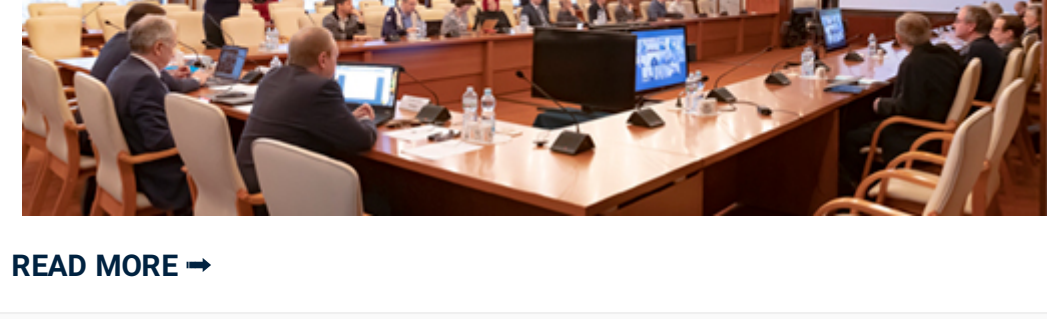
JINR Press Office



Advisory Bodies

Discussing reactor and new projects at meeting of PAC for Condensed Matter Physics

On 17 - 18 January, the 56th meeting of the Programme Advisory Committee for Condensed Matter Physics of JINR took place at the JINR International Conference Centre. Participants discussed the status of the IBR-2 Reactor and considered new topics to be included in the Topical Plan for JINR Research and International Cooperation in 2024.



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57th meeting of PAC for Particle Physics

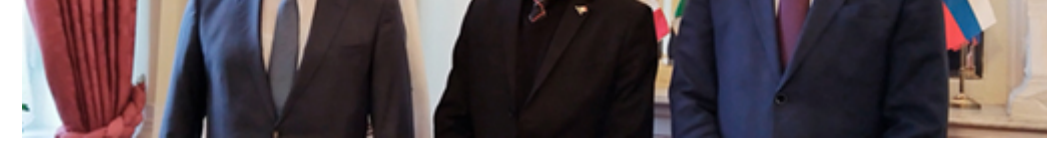
The 57th regular meeting of the Programme Advisory Committee for Particle Physics will take place on 23 January at the JINR International Conference Centre chaired by Itzhak Tserruya. Participants will present reports on the implementation of current projects.

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Cooperation

JINR and Mexico further cooperation

On 12 January, JINR Director Grigory Trubnikov and JINR Vice Director Vladimir Kakekidze had a meeting with Ambassador Extraordinary and Plenipotentiary of Mexico to Russia Eduardo Villegas Mejias. The participants of the meeting highlighted the mutual interest in the cooperation development.



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JINR-China: continuation of dialogue

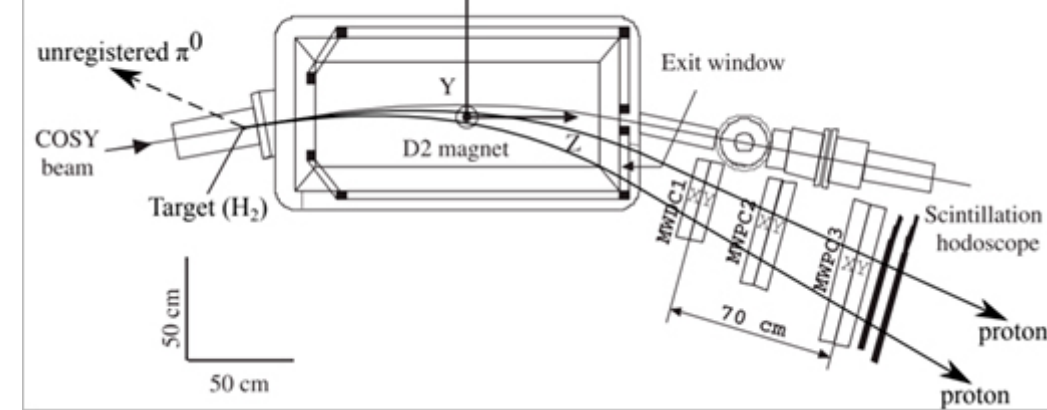
JINR Director Academician Grigory Trubnikov met with Ambassador Extraordinary and Plenipotentiary of the People's Republic of China to Russia Zhang Hanhui. The JINR Director invited the Head of the Chinese diplomatic mission to visit the international centre in Dubna.

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Research

JINR scientists guarding ecology of the Nile

A group of scientists from the Laboratory of Neutron Physics JINR, together with Egyptian colleagues, checked the elemental composition of surface sediments in the Nile River valley and found out that the river is clean. Although the study results have not shown critical excess of the content of chemical elements, there is a possibility that the situation may worsen.



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Three particular properties of periodically pulsed reactor dynamics

The JINR Publishing Department has released a preprint "Three particular properties of periodically pulsed reactor dynamics" P13-2022-36. The author discussed in detail three specific dynamical properties of a periodically pulsed reactor.

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JINR Community

New AYSS seminar

The Association of Young Scientists and Specialists of JINR invites you to a new seminar at the JINR Scientists' Club! On 19 January, an LRB junior researcher Regina Kozhina will deliver a report "DNA repair: all is well that ends well". She will speak how a cell ensures the stability of its own genetic information, what is DNA repair and how important it is at different levels of life organization.

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JINR Cinema Club

This Saturday, on 21 January, at 5:00 PM, you can enjoy watching cartoons from the series "Happy Merry-Go-Round" (1969 - 2017). All are kindly invited! Please note that the JINR Cinema Club will be held in the JINR Universal Public Library.

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Recalling founders

Dezso Kiss

On 15 January, the Joint Institute pays tribute to Dezso Kiss. He was the third JINR Director, Academician of the Hungarian Academy of Sciences, one of the pioneers of Hungarian experimental nuclear physics and elementary particle physics.

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Igor Kurchatov

12 January marked 120th anniversary of I. V. Kurchatov. He was one of the initiators of the JINR creation and supported the idea of V. I. Veksler to construct the world's most powerful Synchrotron in Dubna. FLNR JINR Scientific Leader Yuri Oganesian in a news coverage by Channel One Russia shared his memories of a legendary scientist Igor V. Kurchatov.

READ an article about the outstanding scientist on Indicator.Ru →

WATCH news coverage by Channel One Russia →

Media

JINR scientist in Learned Cat podcast by Radio Sputnik

Staff members of the Sector of Molecular Genetics of Cell of the Laboratory of Nuclear Problems of the Joint Institute for Nuclear Research Mikhail Zarubin and Kirill Tarasov took part in the podcast "We will all die. But we are not sure". They talked about radioresistance of tardigrades, how cellular machinery works, whether genes can be switched on and off, and how they are repaired.

LISTEN →

Filming at VBLHEP JINR

On 16 January the filming for the documentary series "House of Scientists" took place at VBLHEP JINR. The presenter of the programme is Natalia Popova, who initiated this educational project. We are waiting for the film at the end of this year. Stay tuned to [our Telegram channel](#) so as not to miss it!



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JINR in Media

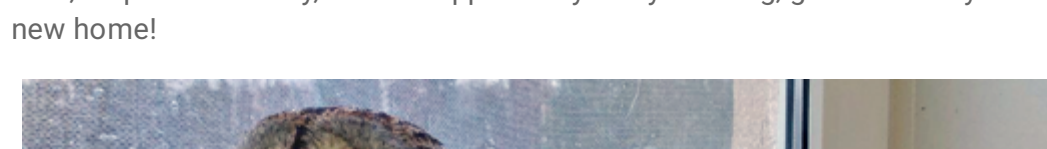
On 17 January, the Russia Today TV channel filmed a coverage at the Laboratory of Nuclear Reactions. FLNR scientists told journalists about the synthesis of superheavy elements. The Laboratory of Information Technologies hosted guests from the Digital Ocean journal on 18 January. Employees of the Laboratory told them about the Govoron Supercomputer.

FILMING at FLNR →

FILMING at MLIT →

News from tawny owl Hedwig rescued by BLTP employee

It has healed the wing, can stand and fly again, eats crickets and mice with good appetite. Unfortunately, Hedwig cannot hunt on its own. That is why it will soon move to the Helopark Complex in Verkhil, where it will have professional care, a spacious aviary, and the opportunity to fly. Hedwig, good luck at your new home!



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Record of DLNP seminar

We kindly invite you to watch the record of the seminar "High-energy neutrinos from blazars: three years later" by Alexander Plavin, which took place on 22 December.

WATCH →

JINR Weekly Newspaper issued

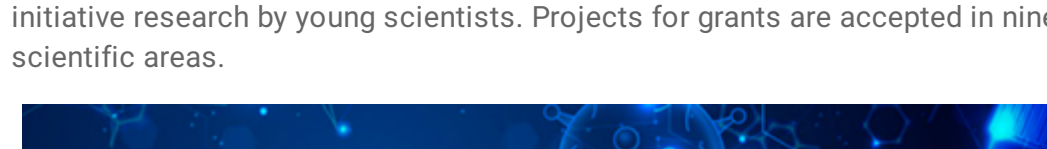
New issue of the JINR Weekly Newspaper #2 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Announcements

RSF grants for young scientist

Submission of applications for grants of the Russian Science Foundation for young scientists is open. There are two grants: conducting research by scientific groups under the guidance of young scientists and conducting initiative research by young scientists. Projects for grants are accepted in nine scientific areas.



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Portraits of Nadia Léger sent to Moscow

Six mosaic portraits created by Nadia Léger will temporarily leave Dubna for demonstration in the Moscow Manege. A large-scale exposition dedicated to the 100th anniversary of the USSR will be organized in the central exhibition hall. The exhibition will open on 2 February and finish in April. During this period, banners with similar images will be placed instead of mosaics.

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Books

New books in Blokhinka

The JINR Universal Public Library has presented new books for adults. There are books for a young audience, detective stories, science fiction, spy stories, as well as novels. It is a great opportunity to spend winter evenings at home with an interesting book.

FIRST part of new books →

SECOND part of new books →

New exhibition in S&T Library

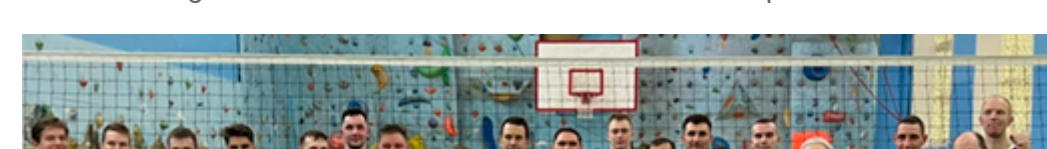
On 23 January an exhibition of the Institute's publications issued in 2022 will open in the JINR Science and Technology Library. You can get acquainted with preprints, periodicals, conference proceedings, and JINR monographs.

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Sports

JINR Victory

A Tournament for the Prizes of N. A. Tamberg was held at the JINR Stadium "Nauka". Congratulations to the JINR team with the first place!



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Crossing swords to find friends

The Japanese Kendo Fencing Club invites those who are fond of Japanese culture to practice. Trainings take place at the JINR Cultural Centre "Mir" on Tuesday and at the JINR Stadium "Nauka" on Friday and Sunday.

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Upcoming Events

Advisory Bodies

- [23 January 2023, 57th Meeting of the Programme Advisory Committee for Particle Physics, JINR International Conference Centre, Dubna](#)
- [26 January 2023, 56th Meeting of the Programme Advisory Committee for Nuclear Physics, JINR International Conference Centre, Dubna](#)

Conferences

- [23 - 27 January 2023, 40th International Conference "Mathematics, Computing, Education", Online](#)

Seminars

- [19 January 2023, at 11:00 AM, VBLHEP, "Using the method of tagged neutrons for fundamental and applied research" by Yuri N. Kopach \(ELNP\) and Mikhail G. Sapozhnikov \(VBLHEP\)](#)
- [19 January 2023, at 4:00 PM, JINR Scientists' Club, AYSS seminar series, "DNA repair: all is well that ends well" by Regina Kozhina](#)
- [23 January 2023, at 11:00 AM, BLTP, Journal Club, "Beyond skyrmions: Review and perspectives of alternative magnetic quasiparticles" by Kaushal Kumar Kesharpu](#)
- [24 January 2023, at 4:00 PM, BLTP, Report of the department "Theory of Condensed Matter" for 2022](#)
- [26 January 2023, at 4:00 PM, BLTP, "Baryon asymmetry and gravitational waves generation before the electroweak phase transition" by Maxim Dvornikov](#)

Culture

- [22 December 2022 - 22 January 2023, daily from 1:00 to 7:00 PM \(except Monday\), JINR Cultural Centre "Mir", Exhibition by JINR Artists' Club](#)
- [19 January 2023, at 7:00 PM, JINR Universal Public Library, Book club "Summer Reading List", discussing the tragedy "Faust" by Johann Wolfgang von Goethe](#)
- [20 January 2023, at 7:00 PM, JINR Universal Public Library, Blokhinka's Lecture Hall: Housing and communal services art](#)
- [21 January 2023, at 5:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [25 January 2023, at 7:00 PM, JINR Scientists' Club, Concert "Serenade for string orchestra"](#)
- [25 January 2023, at 7:00 PM, JINR Scientists' Club, Concert dedicated to the 85th birth anniversary of Vladimir Vysotsky](#)
- [26 January 2023, at 7:00 PM, JINR Universal Public Library, Meeting of the book club "Hainin", discussing a detective novel "Crooked House" by Agatha Christie](#)
- [26 January - 19 February 2023, daily from 1:00 to 7:00 PM \(except Monday\), JINR Cultural Centre "Mir", Exhibition "The art of sketching"](#)

For Kids

- [21 January 2023, at 5:00 PM, JINR Universal Public Library, Let's READers](#)

ALL JINR EVENTS →

